

NOMINATION FOR AWARD		
AWARD General Thomas D. White Pollution Prevention Award	CATEGORY (If Applicable) Industrial	AWARD PERIOD 1 Oct 01 - 30 Sept 03
RANK/NAME OF NOMINEE (First, Middle Initial, Last)	SSN (Enter Last 4 Only)	MAJCOM, FOA, OR DRU AFMC
DAFSC/DUTY TITLE	NOMINEE'S TELEPHONE (DSN & Commercial)	
UNIT/OFFICE SYMBOL/STREET ADDRESS/STATE/ZIP CODE Robins AFB, GA 31098-1860		
RANK/NAME OF UNIT COMMANDER (First, Middle Initial, Last) /COMMANDER'S TELEPHONE (DSN & Commercial)		
SPECIFIC ACCOMPLISHMENTS (Use single-spaced, bullet format)		
<p>BASELINING WASTE-STREAM FLOW AND TAKING ACTIONS TO REDUCE OR ELIMINATE IT:</p> <ul style="list-style-type: none"> - Developed first functional compliance site inventory (CSI) system in AFMC--includes 158 process groups! <ul style="list-style-type: none"> --Vital in reducing compliance cost, risk for hazardous materials & wastes, air/water pollutants, safety/health; includes mission impact, past audit findings--outstanding success for Robins AFB, during an A-76 study! - Barrier Coating key to transformation--potential \$75M saving yearly AF-wide! Flight testing of aircraft painted using innovative barrier coating successful--eliminates 97% hazardous waste, 30% manpower, 65% materials - Achieving Compliance Through Pollution Prevention (CTP2) through continuous process improvement plans! <ul style="list-style-type: none"> -- Process-specific opportunity assessments (PSOAs) established road maps to reduce/eliminate HazMats -- Replaced methyl ethyl ketone in National Emission Standards for Hazardous Air Pollutant (NESHAP) uses -- Identified non-hazardous solvents for paint gun cleaning, replacing HAPs in aircraft integral fuel tank cleaning operation--many in implementation phase with prototypes operating successfully now! - Industrial Wastewater Treatment Plant (IWTP) on base saves \$151K! Process review and improvements at IWTP optimized sludge dewatering, produced 25% volume reduction, reduced overall chemical use by 25% - Plating shop PSOA uses modeling to compare baseline condition to alternatives; ensuring mission readiness! Meets goals cost effectively--reduced HazWaste generation, air emissions, wastewater generation and treatment, environmental burden, improved shop production operations--top four funded at >\$300K in FY03 - Reduction in methylene chloride of 92,000+ lb! Alternate depaint processes produced two-year drop of 43% <p>PREVENTING POLLUTION THROUGHOUT BASE OPERATIONS, FROM FLIGHTLINE MAINTENANCE TO THE SOLID WASTE DISPOSAL IN FAMILY HOUSING:</p> <ul style="list-style-type: none"> - PSOA for flightline vacuum waste reduction resulted in full-scale operational prototype, fewer worker process steps, fail-safe operation, diversion of water to IWTP, and waste disposal cost savings of \$100K+ annually - Excellence in sustainability--fuel cells eliminate pollution! DoD beta test site at base fire station, unique in Air Force, demonstrating fuel cell residential applications--combined heat and power unit; efficient, clean, quiet - Installed environmentally friendly bullet trap at Small Arms Range--getting the lead out saves \$35K annually! <ul style="list-style-type: none"> -- Eliminates cleanup costs, minimizes maintenance of lead contaminated soil waste and management/disposal -- Recycles approximately 3,000 pounds of lead per year and reduces firing range worker exposure to lead - Sustainability in transportation operations across base and mission! Robins has 7 propane, 35 electric, 9 hybrid, and 33 compressed natural gas (CNG) alternative fueled vehicles in multi-mission operations <ul style="list-style-type: none"> -- Lower emissions, lower environmental impact, less maintenance, less costly than gasoline fueled vehicles - Plating shop testing replacement for chlorinated solvent in vapor degreaser with promising results! <ul style="list-style-type: none"> -- Eliminates NESHAP-regulated halogenated solvent; new degreaser used by Phosphoric Acid Anodize Shop - First sustainable construction of "Green Building" in design phase at Robins--ahead of USAF goals! The new <ul style="list-style-type: none"> -- New high visibility, high traffic Visitors Center/Main Gate has a requirement for the Leadership in Energy and Environmental Design (LEED) certification--ahead of AF policy requiring a LEED pilot project in 2004 <p>REDUCING USE OF OZONE DEPLETING SUBSTANCES (ODS) AND HAZARDOUS SUBSTANCES:</p> <ul style="list-style-type: none"> - Essentially eliminated the use of CFC-113, a Class I ODS--showing 99.98% reduction in a key ODS! <ul style="list-style-type: none"> -- The gyroscope repair facility demonstrated and validated the use of HFE-71DE as a replacement -- Successfully reduced CFC-113 usage from 5,000 pounds/year to just one pound per year - Developing alternatives to Class II ODS for critical avionics cleaning/contact cleaning--mission sustainability! - Implemented powder coating in Hydrostat shop, improving quality of parts and eliminating HAPs! <ul style="list-style-type: none"> -- Very durable coatings on non-flight critical aircraft parts look brand new after one year--customers ecstatic! - Flashjet paint stripping system first in AF, used for C-130 Combat Talon II radomes and C-130 nose cones <ul style="list-style-type: none"> -- Strips with pulsed light-carbon dioxide pellet system--reduces labor and eliminates exposure to solvents; reduces solvent use by 24,000 gallons per year, reduces hazardous waste by 122,000 pounds/year -- Unique RAFB-validated system extends product life--approved for use USAF-wide, saves \$900K annually! 		

NOMINATION FOR AWARD (Continued)

RANK/NAME OF NOMINEE (First, Middle Initial, Last)

SPECIFIC ACCOMPLISHMENTS (Use single-spaced, bullet format)

ENHANCING P2 AWARENESS:

- Integrating P2 in depot LEAN events! HazMat point-of-use stations installed numerous locations across depot
- RAFB partnered with our local communities to establish a Middle Georgia Clean Cities Coalition - RAFB and two local counties designated by Department of Energy as Clean City in April 2003 ceremony
- First-ever Middle Georgia Odyssey Day promoting use of alternative fueled vehicles base vehicles featured
- Involving everyone on base in P2! P2 requirements now included in all host-tenant agreements
- Briefed construction and demolition (C&D) waste study results at P2/HazWaste Conference and EPA/DoD Region 4 Annual Conference - sharing tools developed at Robins with other military/federal agencies

IMPLEMENTING CLOSED-LOOP RECYCLING PROJECTS:

- Excess/expired shelf life materials program saves \$196K disposal cost in 2001--"freebies" program success!
- Oil-water separation process reuses oil, preventing hazardous waste disposal--saves \$19K+ in two years
- Toner cartridges are recycled through Federal Prison Industries--base organizations purchase for reuse
- Vehicle maintenance shop leads in closed-loop recycling! Purchases only re-refined motor oil for base fleet, reuses antifreeze recycled using a reclamation unit on base--vehicles and ground support equipment included
- Tires recycled closed-loop! Retreading service recycled 120 tons in a year and returned tires for base reuse

DEVELOPING METHODS TO RECYCLE HAZARDOUS CHEMICALS FROM INDUSTRIAL PROCESSES

- Paint gun cleaners with integral distillation process produce 90% of original solvent volume for reuse in depot process--leaving 10% for disposal--decreasing hazardous waste disposal costs--a CTP2 total success!
- Innovative application of reclamation for plating shop metals provides transformational CTP2 success!
- RAFB demonstrating/validating Anion Liquid-Liquid Exchange technology to replace costly chemical treatment of plating shop wastewater and reclaim/recycle hexavalent chrome from expended plating baths

- Reduces hazardous sludge generation and waste management/disposal costs
- Documented diversion program for used oil, fluorescent bulbs, handwipe cleaning rags, industrial wastewater sludge, lead acid/NiCad battery recycling--reduces hazardous waste disposal by >408 tons/yr!

PROMOTING AND IMPROVING PARTICIPATION IN OFFICE/WORK AREA RECYCLING PROGRAMS

- Award-winning recycling program diverts 52% of solid waste from landfill by reducing, reusing, recycling and composting--includes 89 tons of tires, 1,765 tons of yard/horse stable wastes, 1,000 tons of cardboard!
- Recycling Integrated Process Team with broad membership is crossfeed mechanism to base organizations
- Mandatory recycling policy implemented by installation commander--widely disseminated across base
- Source reduction emphasized! Includes two-sided copying, use of electronic mail, reusable envelopes

PROMOTING/IMPROVING PARTICIPATION-CURBSIDE RECYCLING PROGRAMS, FAM. HOUSING:

- Ease of use promotes recycling! User-friendly approach provides wheeled recycling containers to housing residents, additional containers available upon request--materials are source separated at curb by contractor
- Thinking recycle--every time the refrigerator door opens! Refrigerator magnets provided residents in their welcome packages--provides all the "how to" details, points of contact, and pick-up schedule
- "One person's trash..."! Household hazardous product reuse program provides guidance to residents for sharing unwanted/unneeded products with friends/neighbors or leaving for incoming residents on moving day

PURCHASING RECYCLED CONTENT GOODS AND MATERIALS IMPROVING BASE COMPOSTING:

- RAFB Integrated Solid Waste Management Plan (ISWMP) provides a chapter with details of affirmative procurement (AP) requirements; available in hard copy or on our web site--encouraging AP base-wide!
- IMPAC cardholders are trained in AP best practices during quarterly training provided by base contracting
- Park benches, recycling/trash bins, aircraft wheel chocks, copier paper, and trash liners purchased at Robins are made from recycled materials--preserving natural resources for the future by aggressive sustainability!
- Community partnership results in 100% of yard waste and horse stable wastes currently composted off-base
- On-base composting facility being constructed for yard and stable waste--scheduled opening October 2003

ENHANCING AWARENESS OF RECYCLING PROGRAMS:

- Annual America Recycles Day (ARD) event promotes importance of recycling--event was selected as "Event of the Year" by Georgia Recycling Coalition as a result of having the highest number of pledges in state
- The 2002 ARD event announced ground-breaking for on-base composting facility with media coverage
- Base recycling program briefed at Environmental Protection Committee (EPC) and LEAN meetings
- Hosted highly effective Earth Day Environmental Awareness Fair! Base organizations, local businesses provided in-school presentations, invited schools to fair at Museum, provided students a recycling grab bag